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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/957,422	09/20/2001	Takayuki Fujioka	9792909-5242	2711
26263 7590 01/19/2007 SONNENSCHEIN NATH & ROSENTHAL LLP P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080			EXAMINER	
			BRIGGS, NATHANAEL R	
			ART UNIT	PAPER NUMBER
			2871	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	09/957,422	FUJIOKA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Nathanael R. Briggs	2871			
The MAILING DATE of this communication app					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATE OF THIS COMMUNICATE OF THIS COMMUNICATE OF THIS COMMUNICATE OF THIS CAUSE THE APPLICATION OF THIS CAUSE THE APPLICATION TO DECOME ABAIN OF THIS CAUSE THE APPLICATION TO DECOME ABAIN OF THIS CAUSE THE APPLICATION OF THE APPLICAT	ATION. Note that the state of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 02 No	ovember 2006.	•			
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) This action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1,2 and 4-6</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) <u>1,2, and 4-6</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
		•			
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments, see page 6, section III, paragraphs 2-3, filed November 2, 2006, with respect to claim 6 have been fully considered and are persuasive. The 35 U.S.C. § 112 rejection of claim 6 in the Office Action of August 2, 2006 has been withdrawn.
- 2. Applicant's arguments filed November 2, 2006, have been fully considered but they are not persuasive. Regarding claim 1, Applicant alleges that Tsuda fails to teach or suggest forming an uneven surface layer by coating the gently deformed pillar-shaped bodies and covering open flat spaces located between the isolated pillar-shaped bodies with a second resin and minimizing an occurrence of a flat surface area on the substrate. However, Tsuda Figures 5E-H disclose the steps of coating the gently deformed pillar-shaped bodies (32c) and covering open flat spaces located between the isolated pillar-shaped bodies with a second resin (34a), and minimizing (Figure 5H, 34c) an occurrence of a flat surface area on the substrate (37). Although, as Applicant alleges that spin-coating results in uniform flat surfaces (34a), these initially flat surfaces (34a) are melted (column 10, lines 53-58) and gently deformed (34c), thereby minimizing an occurrence of flat surface area on the substrate (37). Therefore, Applicant's arguments are unpersuasive.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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- 4. Claims 1-2 and 4-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Tsuda et al. (US 5,936,688).
- 5. Regarding claim 1, Tsuda discloses a method of manufacturing a diffusing reflector (see figures 2A-E and 5A-H, for instance) having processes of preparing a substrate (31); forming a first resin film having photosensitivity (32a) on said substrate (31); providing gathering of pillar-shaped bodies (32b) isolated from each other through patterning (33) of said resin film (32a) with the photolithography; deforming gently (32c) said pillar-shaped bodies (32b) through a reflow (column 10, lines 8-11); forming an uneven surface layer (37) having the maximum inclination angle of under 12° (see Fig. 2B) by coating said gently deformed pillar-shaped bodies (32c) and covering open flat spaces (34a) located between said isolated pillar-shaped bodies (32b) with a second resin (34a), thereby minimizing an occurrence of a flat surface area on said substrate (37); and forming a metal film (36) on gathering of said gently deformed uneven surface layer (34c). Claim 1 is therefore unpatentable.
- 6. Regarding claim 2, Tsuda discloses a method of manufacturing a diffusing reflector as claimed in claim 1 (see figures 2A-E and 5A-H, for instance), wherein said maximum inclination angle is about 10° (Fig. 2B). Claim 2 is therefore unpatentable.

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- 7. Regarding claim 4, Tsuba discloses a method of manufacturing a diffusing reflector as claimed in claim 1 (see figures 2A-E and 5A-H, for instance), wherein said reflow process is a heat treatment under the temperature of about 220° C (column 10, lines 12-13). Claim 4 is therefore unpatentable.
- 8. Regarding claim 5, Tsuba discloses a method of manufacturing a diffusing reflector as claimed in claim 1 (see figures 2A-E and 5A-H, for instance), wherein gathering of polygonal pillar-shaped bodies (32c; column 17, lines 32-36) isolated each other by the divided patterning of said resin film (34a) by said photolithography is provided. Claim 5 is therefore unpatentable.
- 9. Regarding claim 6, Tsuba discloses a method of manufacturing a diffusing reflector as claimed in claim 5 (see figures 2A-E and 5A-H, for instance), wherein said resin film (34a) is patterned by the divided patterning means so that size of gap between said polygonal pillar-shaped bodies (32c) isolated each other is almost equal to the minimum resolution of photolithography (column 13, lines 33-40). Claim 6 is therefore unpatentable.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathanael R. Briggs whose telephone number is (571) 272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Nathanael Briggs 1/12/2007

A JUNEUS SAME PRIMARY EXAMINER